

Title (en)

Method for heat treatment of lactoferrin without losing physiological activities thereof.

Title (de)

Methode zur Wärmebehandlung von Laktoferrin ohne seine physiologische Aktivität zu verlieren.

Title (fr)

Méthode pour le traitement thermique de la lactoferrine sans perdre son activité physiologique.

Publication

EP 0437958 A1 19910724 (EN)

Application

EP 90313947 A 19901219

Priority

JP 1026690 A 19900118

Abstract (en)

A method for heat treatment of lactoferrin or a matter containing lactoferrin in moisturized state or a matter containing moisturized lactoferrin, comprising adjusting the pH of said moisturized lactoferrin between 1.0 - 6.5 both inclusive, heating said matter at a temperature equal to or higher than 60 DEG C for a span of time which may assure 60% or more of undenaturation rate of lactoferrin.

IPC 1-7

A23J 1/20

IPC 8 full level

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CPC (source: EP)

A23J 1/20 (2013.01); **A23J 3/08** (2013.01); **C07K 14/79** (2013.01)

Citation (search report)

- [A] JOURNAL OF FOOD SCIENCE, vol. 51, no. 2, 1986, pages 348-351, Chicago, US; J.N. MORGAN et al.: "Thermal destruction of immunoglobulin A, lactoferrin thiamin and folic acid in human milk"
- [A] JOURNAL OF DAIRY SCIENCE, vol. 68, no. 11, 1985, pages 2847-2852, Cahmpaign, Illinois, US; V. BERNAL et al.: "Thermal stability of whey proteins - A calorimetric study"

Cited by

CN102123730A; EP1653987A4; EP2258380A4; US8999923B2; US8420128B2; US11470858B2; WO2009154447A1

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